

USEPA Sustainability Directions

**NASA/C3P International
Workshop on Pollution
Prevention and Sustainable
Development**

San Diego, 18 November 2008



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US Environmental Protection Agency,
Region 9**



Moving From P2 to Sustainability and Climate Change



❖ Evolution of Pollution Prevention

❖ Key Actions

1. Green Purchasing

2. Green Buildings

3. Go Beyond Compliance--Join USEPA Partnerships

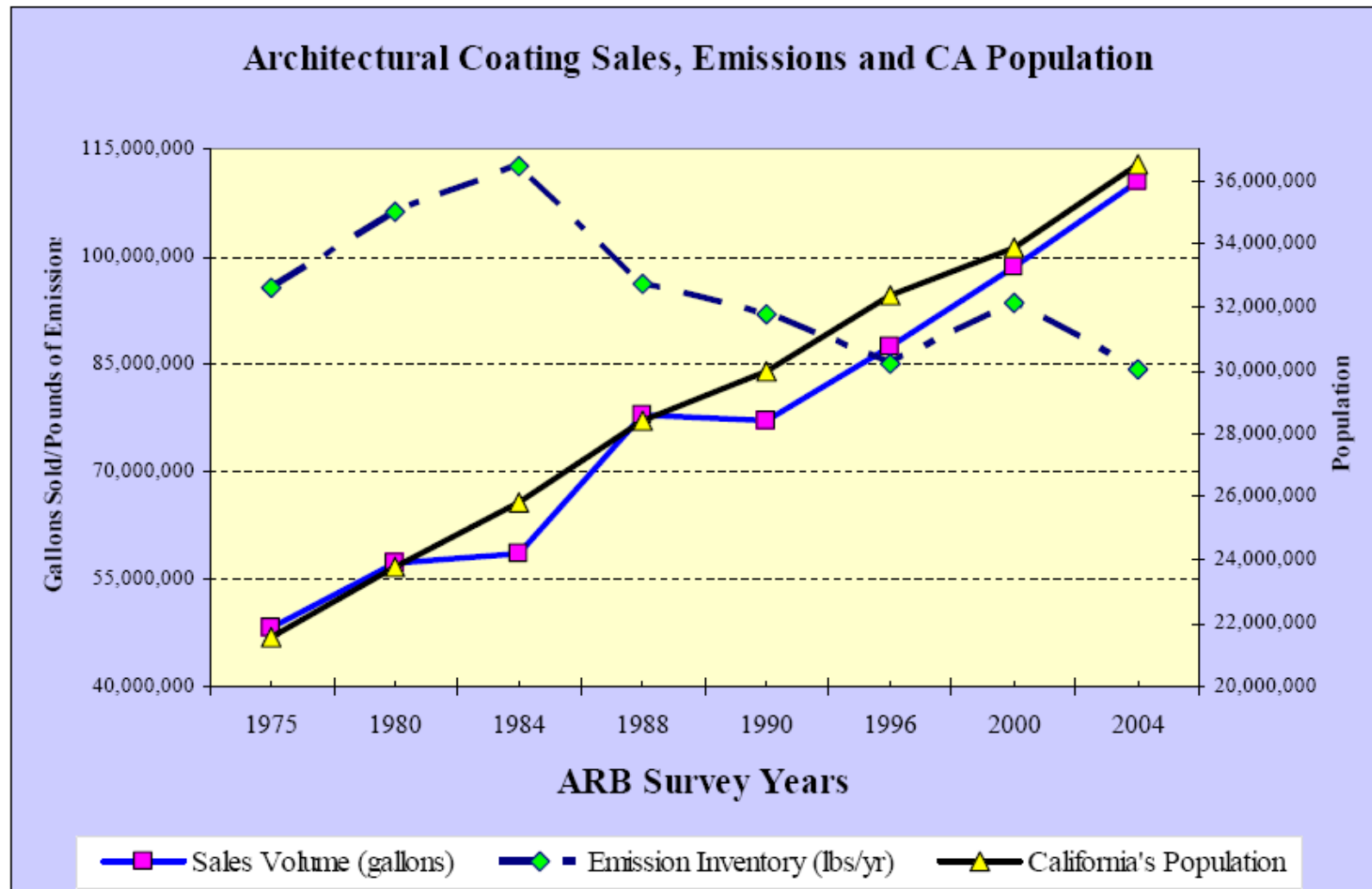
❖ Looking Forward

Evolution of Pollution Prevention



- **1st Transition: From Processes to Products**
- **2nd Transition: From Federal Government Setting Standards to NGO's, State and Local Standards**
- **3rd Transition: From Business to Individuals' Awareness of Ecological and GHG Footprint**

Architectural Coatings Example



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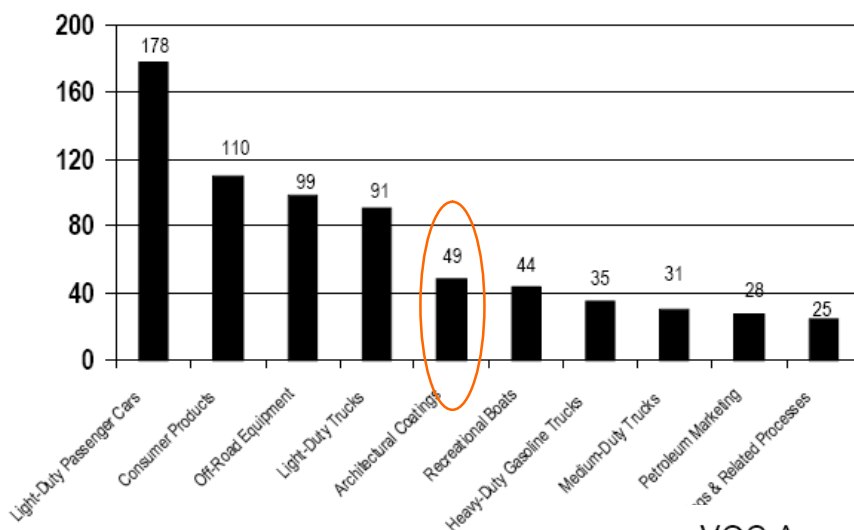


- South Coast AQMD
 - Rule 1113, Architectural Coatings
- California Air Resources Board
 - Suggested Control Measure (SCM)
- U.S. EPA
 - National VOC Emission Standards for Architectural Coatings

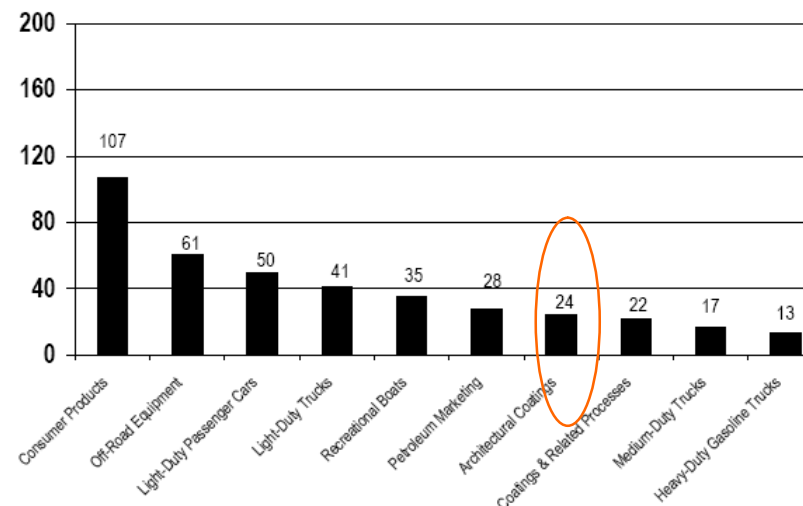
Top 10 VOC Categories in Tons/Day- South Coast AQMD



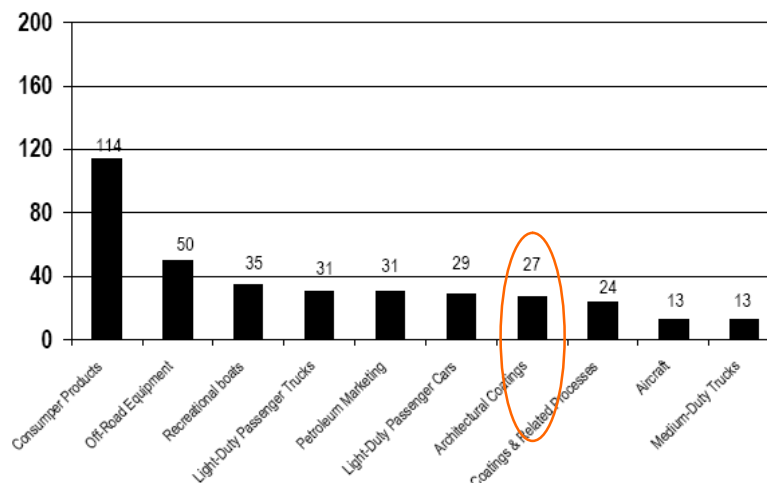
VOC Annual Average Emissions-2002



VOC Annual Average Emissions-2014



VOC Annual Average Emissions-2023



Environmental
Technology
Verification for
Arch.Coatings:
epa.gov/etv

Evolution of Pollution Prevention



- **Next Transition: Pollution Prevention to Sustainability and Climate Change**



Key Actions to Move Towards Sustainability



- 1. Green Purchasing**
- 2. Green Buildings**
- 3. Go Beyond Compliance--Join USEPA Partnerships**

1. Green Purchasing



- **Buy EPEAT Computers: Environmental Product Environment Assessment Tool**
 - **400 Products from 16 Manufacturers**
 - **Based on Registered Products in 2007 Saved:**
 - **13.7b kWh Electricity**
 - **1.07 MMTCE GHG Emissions**
 - **56.5 MMT Other Air Emissions**
 - **118,000 MT Water Pollutants**
 - **41.1m Kg Hazardous Waste**
 - **24.4 MT Primary Materials**
- **<http://epeat.net>**

1. Green Purchasing



- **Buy EnergyStar Products**

www.energystar.gov

- **Buy WaterSense Products**

www.epa.gov/watersense



- **Conserve Energy at Data Centers--
National Data Center Energy
Efficiency Program**

1. Green Purchasing



- **Buy Green Power--USEPA's GreenPower Partnership**
 - Reduce the environmental impacts associated with conventional electricity
 - Play a role in contributing to the security of America's fuel supply
 - USEPA provides Expert Advice, Tools & Resources, Credibility



www.epa.gov/grnpower

1. Green Purchasing



- **Use Green Suppliers--Green Suppliers Network**
 - **Small and Medium Suppliers**
 - **“Lean and Clean” On-site Assessments**

www.greensuppliers.gov

2. Green Buildings



- **Adopt LEED Green Building Standards**
 - **Construction and Renovation**
 - **Operation and Maintenance**



www.epa.gov/region09/greenbuilding

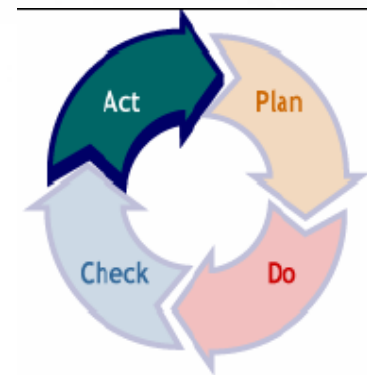
3. Go Beyond Compliance



3. Go Beyond Compliance



- **Join Performance Track**
 - **Develop Environmental Management System--Reduce Environmental Impacts and Improve Operational Efficiency**
 - **Community Outreach**
 - **Measurable Results**
- **548 Member Facilities including 7 AirForce Bases, 4 Navy Bases, 2 Army Bases, 1 NASA**

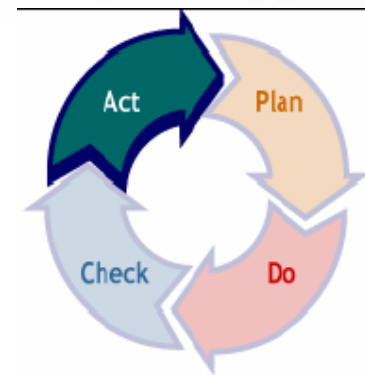


www.epa.gov/performance-track

3. Go Beyond Compliance

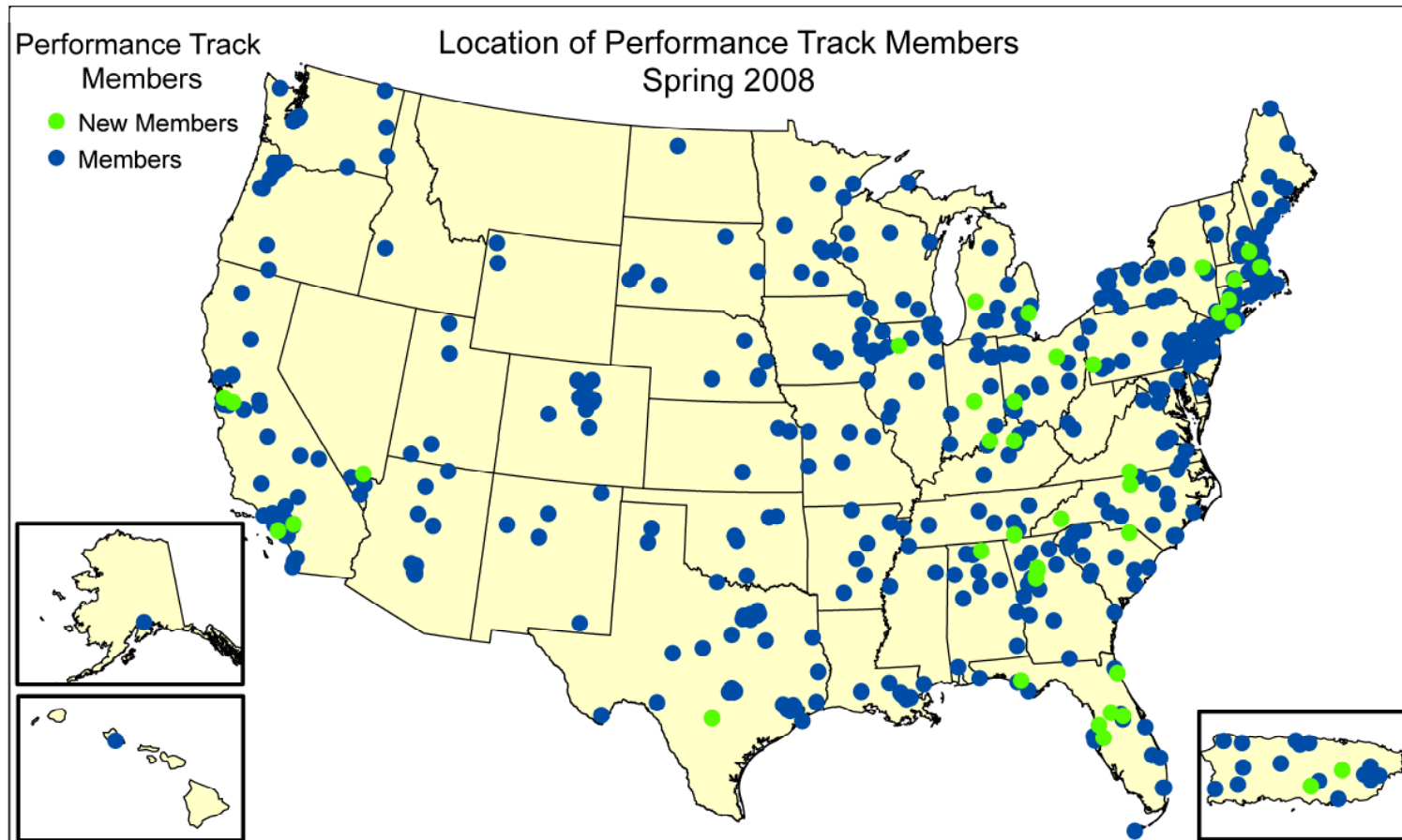


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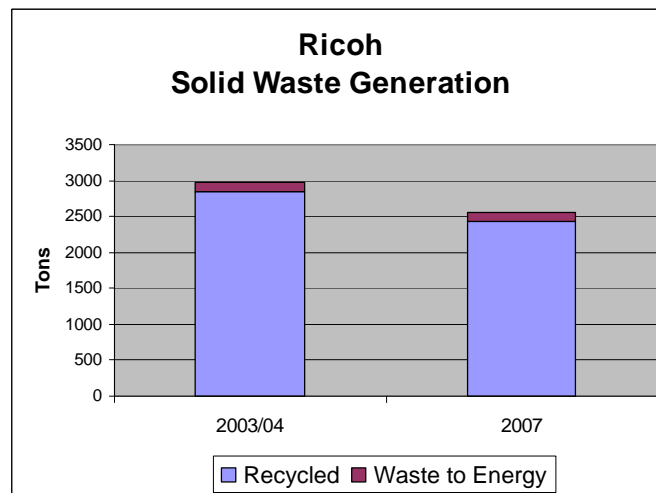
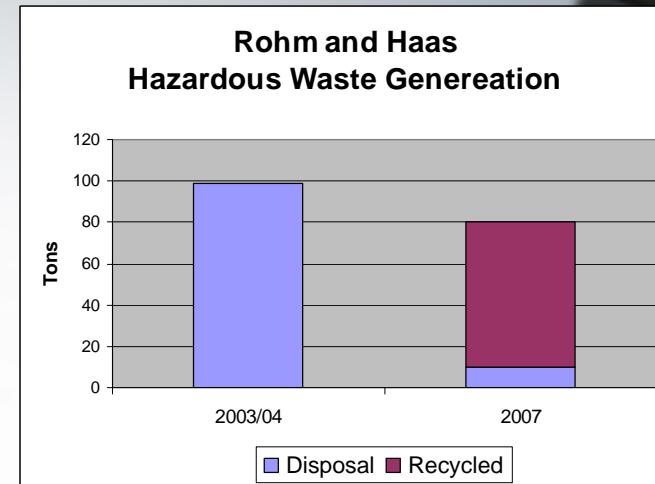
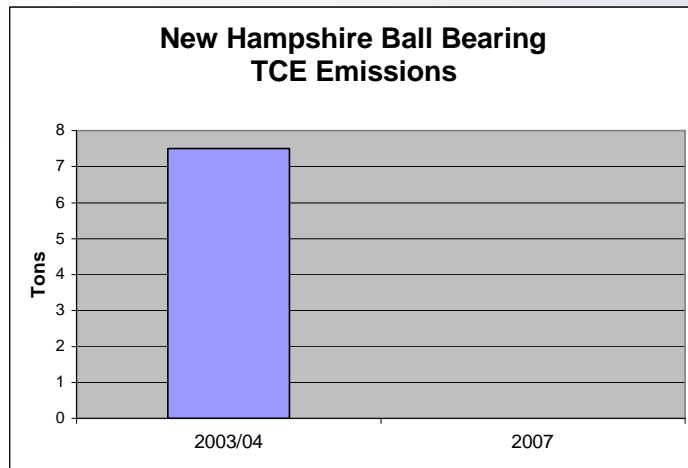
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Recent Performance Track Member Achievements



Lockheed helped to preserve 44 acres of desert habitat

3. Go Beyond Compliance



- **Green Your CleanUps**
 - **Clean Up Clean Air**

www.epa.gov/region09/cleanup-clean-air



- **Incorporate Renewable Energy into Cleanups:
Superfund Renewable Energy Guide**

www.epa.gov/region09/cleanup-clean-air/renewableenergy.html

3. Go Beyond Compliance



- **Join Climate Leaders**
 - **Quantify GHG Footprint**
 - **Commit to GHG Reduction Goal**
 - **Report Annually**
 - **Receive USEPA Recognition**



The Company We Keep



3. Go Beyond Compliance



- **Join the Federal Green Challenge**
 - **Set goal of 5% Reduction in the next year in 2 of four focus areas: Energy, Transportation, Waste and/or Water**
 - **Establish 2007 or 2008 Baseline**
 - **Measure Results**
 - **Report Results**
 - **Get Recognized**

QuickTime™ and a
GIFlet decompressor
are needed to see this picture.

www.federalgreenchallenge.net

Looking Ahead



- **Energy and Economic Security Issues**
- **Pending US Federal Government Regulatory GHG Actions--GHG Reporting Rule, Renewable Fuel Standard, Carbon Capture & Storage**
- **President Elect Obama--New Directions, Waiver For California's GHG Vehicle Stds?**
- **New Congress--Renewable Energy, Energy Efficiency, Climate Change?**
- **Post Kyoto Framework--Poland, 2008; Copenhagen, 2009**

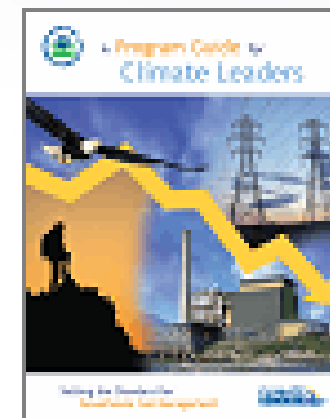
Why Pursue Sustainability?



- **Reduce Risk--Prepare for Impacts of Climate Change; Anticipate GHG Regulation; Reduce Potential Cleanup Costs**
- **Save Money--Energy, Production and Transportation Costs**
- **Competitive Advantage**

www.epa.gov/climatechange

www.epa.gov/cleanenergy



Thank You/Obrigada



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